

AMENDMENTS TO THE CLAIMS

Claims 1 – 8 (canceled).

9. (currently amended) A thermoluminescence dosimetry (TLD)

method comprising the steps of:

exposing more than one similar TLD crystals to a radiation source;

and

reading the radiation dose by the steps of:

heating the one or more thermoluminescence TLD crystals
to cause the emission of light from each crystal over a frequency band that
is determined by properties of the crystals;

filtering passing light from the one or more each crystals through one or more
bandpass filters a different portion the frequency band; and

detecting the filtered light from each crystal passed through the one or more
bandpass filters.

Claim 10 (canceled).

11. (currently amended) The method of claim 13-9 wherein in the passing-filtering step
comprises passing the light from each crystal through a [[the]] bandpass filters, each filter
passing light from only one crystal are equal in number to the crystals.

12. (currently amended) The method of claim 15-11 wherein in the passing step the
bandpass filters number four there are four crystals and four bandpass filters.

13. (currently amended) The method of claim 13-12 wherein in the passing step the
bandpass filters comprise lenses.

14. (new) The method of claim 13 further comprising determining dose calculation from the
detected light from each crystal.

15. (new) The method of claim 12 wherein the pass band for each filter is at least 10% and no more than 40% of the frequency band of the crystal.

16. (new) The method of claim 9 further comprising determining dose calculation from the light detected from each crystal.

17. (new) The method of claim 9 wherein the exposing step comprises having equal filtration between each crystal and the radiation source.

18. (new) The method of claim 17 wherein there is no filtration between each crystal and the radiation source.

19. (new) The method of claim 18 wherein the filtering step comprises passing the light from each crystal through a bandpass filter, each filter passing light from only one crystal.

20. (new) The method of claim 19 wherein there are four crystals and four bandpass filters.

21. (new) The method of claim 20 further comprising determining dose calculation from the detected light from each crystal.